

**AMENDMENTS TO THE ABSTRACT:**

Please replace the present abstract with the following rewritten abstract:

-- A fuel cell system includes a fuel cell main body which has a solid polymer electrolytic membrane, a fuel electrode and an oxidant electrode attached to the solid electrolyte membrane; a fuel storage unit which stores liquid fuel; a polymer membrane having a proton conductivity and provided in the fuel storage unit; a concentration detection unit (a first electrode terminal and a second electrode terminal) which detects the alcohol concentration of the liquid fuel in the fuel storage unit based on the alteration of the proton conductivity of said polymer membrane; and a concentration measurement unit. --

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